

Abstract

An injector for introducing a fluid composition into an air conditioning system is provided. The injector includes a pump including an internal volume having a first opening and a second opening, and a plunger which moves within the internal volume between a first position and a second position. The first opening includes a first valve for selectively allowing the fluid composition to flow from the internal volume as the plunger moves from the first position to the second position. The second opening includes a second valve for selectively allowing the fluid composition to flow into the internal volume as the plunger moves from the second position to the first position. A hose is provided having a first end connected to the first opening, and a second end constructed for attachment to a port on an air conditioning system. A cartridge including a fluid composition is provided fluidly connected to the second opening of the pump. Methods for injecting lubricant into an air conditioning system and detecting leaks in an air conditioning system are provided. A kit for detecting leaks in an air conditioning system is provided.

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